The 101st annual meeting of the Arkansas Academy of Science will be held on April 7-8, 2017, hosted by the University of Central Arkansas in Conway, AR.

Oral presentations will begin on Friday afternoon. Friday evening will feature an informal mixer, dinner, and a keynote speaker. Oral presentations will continue on Saturday morning, all posters will be on Saturday morning. The keynote speaker is Dr. Sally Entrekin; Dr. Entrekin is an ecologist in the Department of Biology at UCA.

Participants will have the option of making an oral or poster presentation. Completely filled registration form, abstract (s), registration fee and membership dues must be received by March 12th. The details of payment by web or mail are in the registration form. Registration and abstract submission forms are online at: http://uca.edu/cnsm/aas/

For further information you can contact Dr. Stephen R. Addison, Tel: 501 450-3199 email: saddison@uca.edu.

Journal manuscripts are due to Managing Editor or Editor-In-Chief at the meeting for inclusion in the JAAS Volume 71. Editorial staff will have a table near registration. PLEASE read instructions for prospective authors found at the Academy website. http://arkansasacademyofscience.org (journal tab).

101st Annual Meeting of the Academy at UCA

AAS Business Meeting for Everyone

The annual business meeting for ALL members of the Academy will take place Saturday April 8th at noon in the LSC 100 after the final session.

Please make travel plans that will allow you to stay and attend the business meeting. The meeting is for you, and your attendance, contributions, expertise and insights make the Academy better.
Information For Presenters

Information for Presenters

Presenters should clearly communicate any special equipment needs at the time of their registration. Computer projection systems for PowerPoint will be available.

All PowerPoint presentations must be on USB flash drive and must be loaded onto the computer available in the session room prior to the start of the session. Therefore, if you plan to use PowerPoint, you must be at the session at least 30 minutes prior to the start of the session (i.e., if your talk is at 10:15, then you are in a morning session that begins at 9:00 a.m. You must be there at 8:30 AM to load your talk onto the computer).

Abstract submission will be open for the 2017 AAS meeting soon. Abstracts must be submitted for both oral and poster presentations. Oral presentations are limited to 15 minutes (12 minute talk, 3 minutes for questions).

For optimal display, posters should be limited to 42 inches in both width and height. Vertical display boards will be available for poster displays. Poster sessions for all disciplines will be on Saturday morning.

Abstract submission and registration are online. Abstracts will be posted online within one week after they are received. Abstracts must be received the end of the day on March 12th for both oral presentations and posters! Be sure to submit your registration form as well.

The website should be ready for submissions by January 20.

JAAS Publication

Manuscripts for publication in the Journal, based on a presentation given at the meeting, are due at the time of the presentation. See page 5 for brief information about publishing in the Journal.

PLEASE read instructions for prospective authors found on the Academy website http://www.ArkansasAcademyofScience.org (Journal tab)

Any questions can be directed to the Managing Editor of the Journal (Dr. Ivan Still, istill@atu.edu). A hard copy should be handed to the editorial staff the day of the meeting.

Membership and Registration Fee Payments & Other Details

Membership Fee: Please complete the membership form and e-mail a copy to Dr. Steve Addison. You can pay your membership fee online at http://www.arkansasacademyofscience.org/aasmembership.html; or mail a check to Dr. Mostafa Hemmati, Treasurer, at P.O. Box 1950, Russellville, AR 72811. If you are paying the membership fee for several individuals, please send detailed contact information for all individuals to Dr. Mostafa Hemmati as well.

Registration Fee: Please complete the registration form and e-mail a copy to Dr. Steve Addison. You can pay your registration fee online at http://www.arkansasacademyofscience.org/aasmeetings.html; or send a check to Dr. Steve Addison at University of Central Arkansas. If you are paying the registration fee for several individuals, please send detailed contact information for all individuals to Dr. Steve Addison, Tel: 501 450-3199 email: saddison@uca.edu and Dr. Mostafa Hemmati at the address mentioned in the membership fee section above.

http://www.ArkansasAcademyofScience.org (Meetings tab)
Keynote Speaker

Our Guest speaker is Sally Entrekin, PhD, an Associate Professor in the Department of Biology at the University of Central Arkansas.

Background: Dr. Entrekin is an environmental scientist, she earned her BS in Biology at Georgia Southwestern University, and MS in Entomology from the University of Georgia, and a PhD in Biology from the University of Notre Dame. Dr. Entrekin has been a faculty member at UCA since 2008. The basic question addressed by Dr. Entrekin’s lab is: “How do natural and human disturbances interact to influence aquatic community composition and function.” Dr. Entrekin is widely published and has made many presentations at national and regional meetings. Recent work has included stream ecology in the area of the Fayetteville Shale. This work includes examining how rapid land use changes, such as natural gas extraction and urbanization, alter associated freshwater ecosystems, and how interactions among common and emerging watershed activities change stream structure and functions.

Editor’s Corner: I have been contacting different Universities for a Liaison Officer to AAS. I have names from ATU, HSU, HC, OBU, PSC, SAU, UARK, UO and ASU. So if you are interested to serve the AAS, please feel free to contact me: R. Panneer Selvam, UARK, email: rps@uark.edu, ph: (479)575-5356

Please feel free to give your feedback to improve the news items.
Tentative Schedule of Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>Friday April 7th</td>
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<tr>
<td>10:00</td>
<td>Executive Committee Meeting</td>
<td>CCCS-212C</td>
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<tr>
<td>11:00 - 11:50</td>
<td>Registration and Payments</td>
<td>CCCS Lobby</td>
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<tr>
<td>12:00-12:30</td>
<td>Judges and Session Chairs</td>
<td>CCCS</td>
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<tr>
<td>1:00 – 2:30</td>
<td>Oral Sessions 1</td>
<td>CCCS</td>
</tr>
<tr>
<td>2:30-3:00</td>
<td>Break - Refreshments</td>
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<tr>
<td>3:00 – 4:30</td>
<td>Oral Sessions 2</td>
<td>CCCS</td>
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<tr>
<td>4:30 - 5:30</td>
<td>Mixer</td>
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</tr>
<tr>
<td>6:00 – 8:30</td>
<td>Banquet and Keynote Address</td>
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<tr>
<td>Saturday April 8th</td>
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<tr>
<td>8:00 – 9:00</td>
<td>Continental Breakfast</td>
<td>LSC</td>
</tr>
<tr>
<td>8:00 – 10:00</td>
<td>Registration and Payment</td>
<td>CCCS Lobby</td>
</tr>
<tr>
<td>8:30 – 10:30</td>
<td>Oral Sessions 3</td>
<td>CCCS</td>
</tr>
<tr>
<td>8:30-11:00</td>
<td>Posters</td>
<td>HPER</td>
</tr>
<tr>
<td>10:00 – 11:30</td>
<td>Meeting of Judges</td>
<td>CCCS</td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>Awarding of Prizes</td>
<td>LSC 100</td>
</tr>
<tr>
<td>AAS Business Meeting</td>
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</table>

CCCS is the Conway Corporation Center for Science, LSC is the Lewis Science Center and HPER is the HPER Center.

**All members of the Academy are invited and strongly encouraged to participate in the AAS business meeting.**

A copy of this Newsletter as well as previous editions are available ONLINE in the AAS members web pages accessed through the public portal at URL

http://www.ArkansasAcademyofScience.org

Summary of Schedule

Mar 1 – Undergraduate Research Award proposals
Mar 12 – Registration, abstracts, payment of registration and dues
Mar 30 – JAAS manuscript (if submitting for review)
Apr 7 – 11 AM – Registration opens at CCCS-212C

2016 AAS Executive Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Edmond Wilson</td>
<td>President (2016-2017)</td>
<td>Harding University, Searcy, AR 72149-5615, ph: (501)279-4513, email: <a href="mailto:willyard@hendrix.edu">willyard@hendrix.edu</a></td>
</tr>
<tr>
<td>Dr. R. Panneer Selvam</td>
<td>President-elect</td>
<td>Department of Civil Engineering, Bell 4190 University of Arkansas, Fayetteville, AR 72701, Ph: (479) 575-5356, email: <a href="mailto:rps@uark.edu">rps@uark.edu</a></td>
</tr>
<tr>
<td>Dr. Frank Hardcastle</td>
<td>Vice-President</td>
<td>Department of Chemistry, Arkansas Tech University, 1701 N. Boulder Ave., Russellville, AR 72801, Ph: (479) 880-2241, email: <a href="mailto:fhardcastle@atu.edu">fhardcastle@atu.edu</a></td>
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<td>Dr. Ann Willyard</td>
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<td>Department of Biology, Hendrix College, 1600 Washington Ave, Conway, AR 72032, Ph: (501)450-1376, email: <a href="mailto:willyard@hendrix.edu">willyard@hendrix.edu</a></td>
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<td>Treasurer</td>
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</tr>
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<td>Dr. Ivan Still</td>
<td>Journal Managing Editor</td>
<td>Dept. of Biological Sciences, Arkansas Tech University, 1701 N. Boulder Ave., Russellville, AR 72801-2222, Phone: (479) 968-0294, email: <a href="mailto:istill@atu.edu">istill@atu.edu</a></td>
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<tr>
<td>Dr. Collis Geren</td>
<td>Secretary</td>
<td>16116 Pin Oak Road, Fayetteville, AR 72704, ph: (479) 521-5311, email: <a href="mailto:cgeren@uark.edu">cgeren@uark.edu</a></td>
</tr>
<tr>
<td>Dr. Kimberly G. Smith</td>
<td>Historian</td>
<td>Department of Biological Sciences, University of Arkansas, Fayetteville, AR 72701, Ph: (479) 575-6359, email: <a href="mailto:kgsmith@uark.edu">kgsmith@uark.edu</a></td>
</tr>
<tr>
<td>Dr. Rami Alroobi</td>
<td>Webmaster</td>
<td>Math and Computer Science Department, Southern Arkansas University, 100 East University Road, Magnolia, AR 71753, Phone (870) 235-4295, email: <a href="mailto:ramialroobi@saumag.edu">ramialroobi@saumag.edu</a></td>
</tr>
<tr>
<td>Dr. R. Panneer Selvam</td>
<td>Newsletter Editor</td>
<td>Department of Civil Engineering, Bell 4190 University of Arkansas, Fayetteville, AR 72701, Ph: (479) 575-5356, email: <a href="mailto:rps@uark.edu">rps@uark.edu</a></td>
</tr>
</tbody>
</table>

Aren’t you the right person to step up to a leadership role?
Journal of the Arkansas Academy of Science (JAAS):
Manuscripts for publication in the JOURNAL, based on a presentation given at the meeting, are due two days prior to the annual meeting. One of the authors must be an AAS member to publish in the JOURNAL.

Comments for Prospective Authors
Authors are required to use the instructions found on the AAS website in preparing manuscripts submitted for publication in the Journal of the Arkansas Academy of Science. Authors are directly responsible for the major formatting of their article and, thus, manuscripts must be properly formatted PRIOR to submission. Figures and tables must be inserted into their appropriate locations in the manuscript. A caption should be written under each figure and above each table. The editor and printer do no significant retyping or editing and only act to assemble the Journal. The final product submitted by the authors will be the published document in the Journal. The electronic copy of the manuscript should be a single file. To view and/or download new instructions visit the Academy website.

In 2017, Volume 71 of the JOURNAL will begin accepting manuscripts electronically via the JOURNAL website: http://scholarworks.uark.edu/ajas/. For all authors submitting via this method, the entire review and publication procedure will be handled via the server. Please allow time to get used to the new system.

In this transition year, those authors who would prefer to use the email method, please e-mail your manuscript to the Managing Editor (istill@atu.edu).

A hard copy should be handed to the editorial staff at the meeting.

PLEASE read instructions for prospective authors found on the Academy website: http://

www.arkansasacademyofscience.org/aasjournal.html (Journal tab)

Reviewers Solicited
Persons interested in acting as Associate Editors of the JOURNAL or Reviewers in their field of expertise of manuscripts submitted for publication in the AAS Journal are needed.

Please contact Mostafa Hemmati (mhemmati@atu.edu) or Ivan Still (istill@atu.edu) by e-mail and provide your contact information and area(s) of expertise. Please be specific about the individual subjects you wish to review. (e.g. not just Botany, but herbaceous plants, or woody plants, or aquatic plants; and not just vertebrates, but reptiles, particularly snakes.)

Awards competition for student presentations at the AAS Meeting
Students commonly present results of their research at the annual meetings of the Arkansas Academy of Science. Our award competition seeks to recognize outstanding presentations made by these students. Categories for oral presentation awards include Life Science and Physical Science, at both the undergraduate and graduate levels of competition. Certificates and cash awards may be given for first place ($100), second place ($50), and third place ($50). Awards for the best overall undergraduate and graduate poster presentations will also be made.

Student presenters interested in any of these competitions should indicate their desire to compete on their submitted abstract. Presentations and posters not specifically entered into the competition will not be judged, nor will they be eligible for an award.

Arkansas Academy of Science PERMANENT ONLINE HOME:
AAS Web Pages: The official website of the Academy now has a permanent public portal whose web address will never change although internal links for member pages might whenever the host migrates. Always access the online Academy pages from the permanent public portal...

http://www.ArkansasAcademyofScience.org
Accommodations in Conway (Around UCA)

Conway has many hotels and motels; most of them are clustered around Interstate 40 and are around 2 miles from campus. These hotels include Best Western, Comfort Suites, Comfort Inn and Suites, Country Inn and Suites, Day’s Inn, Fairfield Inn and Suites, Hampton Inn, Hilton Garden, Holiday Inn Express, La Quinta, Microtel Inn and Suites (Wyndham), as well as many others that are members of smaller chains. Costs and other information about these hotels can be conveniently found at the Trip Advisor web site.

Parking
Parking information will be sent to registrants. There are many spaces in the vicinity of the Conway Corporation Center for Sciences and the Lewis Science Center. Parking should be available on Friday afternoon and plentiful on Saturday. We will either reserve a lot or we will send out permits to preregistered conference attendees.

Maps of the campus can be found at:
http://pplanet.uca.edu/Maps_and_Plans/MapsContents.html

Organizing Committee:

Stephen Addison, Chairman, saddison@uca.edu
Ginny Adams (Dean’s Office, Environmental Science), gadams@uca.edu
Ben Rowley, (Biology), browley@uca.edu
Robert Mauldin (Chemistry), rmauldin@uca.edu
Yu Sun (Computer Science), yusun@uca.edu
Steve O’Connell (Geography), soconnell@uca.edu
George Bratton (Mathematics), georgeb@uca.edu
Ashley Hicks (Physics), ahicks@uca.edu
[All can be reached via 501-450-3199 ]
Arkansas Academy of Science

Undergraduate Research Awards
(up to $1000)

Applications available at
http://www.arkansasacademyofscience.org/

Applications are due: March 1, 2017

To send applications or for more information contact:
Dr. Jess Kelley kellyj@obu.edu
(870) 245-4187
2016 AAS PRESENTATION AWARD WINNERS

UNDERGRADUATE ORAL PRESENTATION AWARDS: Chemistry

1st Place
Cholesterol Influence on Arginine-Containing Transmembrane Peptides by Jordana K. Thibado; Ashley Martfeld; Denise Greathouse; Roger E. Koeppe II. University of Arkansas, Fayetteville

2nd Place
Small Molecule Inhibitors of System xC by John Kreun; Allen Snider; Mariusz P. Gajewski. Arkansas Tech University

3rd Place
Length – Valence Relationship for Carbon – Nitrogen Chemical Bonds by Connor Harris; Franklin D. Hardcastle. Arkansas Tech University

GRADUATE ORAL PRESENTATION AWARDS: Chemistry

1st Place
Varied Approaches to the Ionization Behavior of Specific Glu Residues That Face the Lipids in Transmembrane Helices by Venkatesan Rajagopalan; Denise V. Greathouse; Roger E. Koeppe II. University of Arkansas, Fayetteville

2nd Place
Evidence for a New Phase of Liquid Buried in Experimental Surface Tension Measurements of Supercooled Water by Ryan Rogers; Kai-Yang Leong; Feng Wang. University of Arkansas, Fayetteville

3rd Place
Stereo-specific Reduction of R- and S-Warfarin by Human Hepatic Cytosolic Reductase by D. A. Barnette; D. L. Pouncey; R. Nshimiyimana; L. P. Desrochers; D. K. Hammon; T. E. Goodwin; G. P. Miller. University of Arkansas for Medical Sciences; Hendrix College

UNDERGRADUATE POSTER PRESENTATION AWARDS: Chemistry

1st Place
Determining Diffusion Coefficients in Bulk Solution and Through Membranes Using Electrochemical Time of Diffusion (ETOD) by Madeline Meier; Jon Moldenhauer; David Paul. University of Arkansas, Fayetteville

2nd Place
Helix Fraying May Stabilize Transmembrane Alpha Helices by Armin Mortazavi; Venkatesan Rajagopalan; Roger E. Koeppe II. University of Arkansas, Fayetteville

3rd Place
Determination of Fatty Acid Concentrations in Algae by Donnell White; Beth Justice; Drake Palazzi. University of Arkansas at Monticello

GRADUATE POSTER PRESENTATION AWARDS: Chemistry

1st Place
Engineering the Structure of Fibroblast Growth Factor through Site Directed Mutagenesis for Increased Protein Stability by Julie Davis; Srinivas Jayanthi; T.K.S. Kumar. University of Arkansas, Fayetteville

GRADUATE POSTER PRESENTATION AWARDS: Molecular and Cellular Biology

1st Place
Characterization of the Thioredoxin System in Methanosarcina acetivorans Reveals Complexity of the System in Methanogens by Addison C. McCarver; Faith H. Lessner; Daniel J. Lessner. University of Arkansas, Fayetteville

2nd Place
Simplifying Gene Stacking in Plants using Site Specific Recombinases and Nucleases by Bhuvan Pathak; Jamie Underwood; Soumen Nandy; Shon Zhao; Vibhav Srivastava. University of Arkansas, Fayetteville

3rd Place
Precision Medicine: A Case for Exemestane Therapy by Bryana J. Gregory; Joshua D. Simpson; Nour M. Hussein Harding University College of Pharmacy

UNDERGRADUATE POSTER PRESENTATION AWARDS: Molecular and Cellular Biology

1st Place
Identification of the Gene Defective in J56, an Arabidopsis Auxin-conjugate Response Mutant by Ahmed Stivers; Bethany Zolman; Rebekah Rampey. Harding University

2nd Place
Identification of Important Residues in Arabidopsis IBR3 Using Site-directed Mutagenesis and Mutant Phenotype Complementation assays by Amy Scott; Rebekah Rampey; Bethany Zolman. Harding University; University of Missouri, St. Louis

3rd Place
Fatty Acid Metabolism Controlled by NHR-80 and NHR-49 is Necessary for Caenorhabditis elegans to Survive in Severe Hypoxia by Quinton Anderson; Ben Saunders; Jo Goy. Harding University

GRADUATE ORAL PRESENTATION AWARDS: Molecular and Cellular Biology

1st Place
GTP Hydrolysis Is Not Required by Chloroplast Signal Recognition Particle and its Receptor for Post Translational Targeting and Insertion of Integral Thylakoid Membrane Proteins by Priyanka Sharma; Ralph L. Henry; Robyn L. Go forth; Alicia D. Kight. University of Arkansas, Fayetteville
GRADUATE ORAL PRESENTATION AWARDS: Field Biology and Ecology

1st Place
Relative Wildlife Community Metrics within Arkansas State Parks by Bennett Grooms1; Rachael Urbanek2. Arkansas Tech University1; University of North Carolina, Wilmington2

2nd Place
Allelopathic Influence of Eucalyptus on Three Common Kenyan Farming Crops by Brandy Garrett Kluthe. University of Arkansas, Fayetteville

UNDERGRADUATE ORAL PRESENTATION AWARDS: Molecular and Cellular Biology

1st Place
The Effects of Type of Information and Type of Exposure on Attitudes about Mental Illness by Jessica Bonumwezi; Kelly Brice. Hendrix College

2nd Place
Growth of Methanogens in the Presence of Perchlorate Salts: A Study for Possible Life on Mars by John Cale; Rebecca L. Mickol; Tim A. Kral. University of Arkansas, Fayetteville

3rd Place
Phenotypic Variation of a Segregating Blackberry Population for Molecular Marker Development by Loren M. Anthony; John R. Clark; Daniela Segantini. University of Arkansas, Fayetteville

GRADUATE POSTER PRESENTATION AWARDS: Field Biology and Ecology

1st Place
Population Dynamics of Chelonians in an Urban Lake in Jonesboro, Craighead County, Arkansas by J.D. Konvalina; C.S. Thigpen; S.E. Trauth. Arkansas State University

2nd Place
Vegetation Diversity in Natural and Restored Forested Wetland Sites in Southeast Arkansas by Chris Sheldon; Robert L. Ficklin; Karen Fawley. University of Arkansas at Monticello

UNDERGRADUATE POSTER PRESENTATION AWARDS: Field Biology and Ecology

1st Place
Distribution and Abundance of Introduced Seal Salamanders (Desmognathus monticola) in Northwest Arkansas, USA by Clint Bush. University of Arkansas, Fayetteville

2nd Place
An Ecological Study of the Burrowing and Feeding Habits of Coronis scolopendra Latreille (Stomatopoda: Nannosquillidae) by Addison Ochs. Southern Arkansas University
A Support Vector Machine Based Model for Predicting Heparin-binding Proteins using XB patterns as Features by Joseph Sirranni; Wing Ning Li; Thallapuranam Suresh Kumar. University of Arkansas, Fayetteville

UNDERGRADUATE POSTER PRESENTATION
AWARDS: Computing Science

1st Place

Rules for Differentiating Between Non-Isomorphic Graphlets by John Calvin Alumbaugh; Dale R. Thompson. University of Arkansas, Fayetteville

UNDERGRADUATE POSTER PRESENTATION
AWARDS: Physics

1st Place

The Effects of Denial-of-Service Attacks on Secure Time-Critical Communications in the Smart Grid by Fengli Zhang; Qinghua Li; Chase Ross. University of Arkansas, Fayetteville

2nd Place

IPv6 Security Performance Analysis by Adrian Ordorica; Dale R. Thompson. University of Arkansas, Fayetteville

GRADUATE POSTER PRESENTATION
AWARDS: Engineering

1st Place

Electrospun Poly-Ethylene Oxide Nanofibers by Hope Schneider; Daniel Bullock; Jim Steuber. Arkansas Tech University

2nd Place

Android Control of Science Instruments by Daniel Grant; Maria Medrano; Edmond Wilson. Harding University

3rd Place

Persistent and Controllable Weather Balloons as High Altitude Test Vehicle by Maxwell Martin; Adam Huang University of Arkansas, Fayetteville

GRADUATE ORAL PRESENTATION
AWARDS: Computing Science

1st Place

Two-dimensional Disorder in Black Phosphorus and Monochalcogenide Monolayers at Finite Temperature by Mehrshad Mehboodi; Salvador Barraza-Lopez; Alex M. Dorio; Hugh O. H. Churchill; Alejandro A. Pacheco-Sanjuan; Edmund O. Harriss; Pradeep Kumar. University of Arkansas, Fayetteville; Universidad del Norte

2nd Place

Universal Energetic Coupling in Complex Antiferroelectric and Incommensurate Perovskites by Kinnary Patel; Sergey Prosandeev; Yurong Yang; Bin Xu; Jorge Iñiguez; L. Beilaiche. University of Arkansas, Fayetteville; Southern Federal University, Russia; Luxembourg Institute of Science and Technology

3rd Place

Double Groups in Molecular Physics by Bradley Klee. University of Arkansas, Fayetteville

GRADUATE ORAL PRESENTATION
AWARDS: Engineering

1st Place

Engineering Biphasic Janus-type Polymer-Protein Nanofibers via Centrifugal Jet Spinning by Prashanth Ravishankar; Alex Khang; Kartik Balachandran. University of Arkansas, Fayetteville

2nd Place

Effect of Quinhydrone-Methanol Passivation on Hydrogenated and Standard Boron Emitters by Matthew Young; Hameed Naseem. University of Arkansas, Fayetteville

GRADUATE ORAL PRESENTATION
AWARDS: Physics

1st Place

Two-dimensional Disorder in Black Phosphorus and Monochalcogenide Monolayers at Finite Temperature by Mehrshad Mehboodi; Salvador Barraza-Lopez; Alex M. Dorio; Hugh O. H. Churchill; Alejandro A. Pacheco-Sanjuan; Edmund O. Harriss; Pradeep Kumar. University of Arkansas, Fayetteville; Universidad del Norte

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3rd Place

Double Groups in Molecular Physics by Bradley Klee. University of Arkansas, Fayetteville
3rd Place
Environmental Sustainability of Distribution-retail Networks in the United States by Jasmina Burek; Darin Nutter. University of Arkansas, Fayetteville

UNDERGRADUATE POSTER PRESENTATION AWARDS: Engineering

1st Place
Properties of GaN/SiC Heterostructures for Harsh Environment Power Devices by Stephanie Sandoval; Chen Li; Morgan Ware; Zhong Chen. University of Arkansas, Fayetteville

GRADUATE POSTER PRESENTATION AWARDS: Engineering

1st Place
Systematic Study of Si-based Ge/Ge0.9Sn0.1/Ge Photodiodes with 2.6 µm Detector Cutoff by Thach Pham. University of Arkansas, Fayetteville

2nd Place
Optical Properties Study of Ge1-xSnx Alloys by Spectroscopic Ellipsometry by Huong Tran. University of Arkansas, Fayetteville

3rd Place
Temperature Dependent Study of GeSn Light-emitting Diodes on Si for Mid-infrared Applications by Yiyin Zhou. University of Arkansas, Fayetteville

UNDERGRADUATE ORAL PRESENTATION AWARDS: Geoscience

Lower Mississippian Chert Development, Southern Mid-continent Region by Julie M. Cains. University of Arkansas, Fayetteville

GRADUATE ORAL PRESENTATION AWARDS: Geoscience

1st Place
Sourcing Diagenetic and Mineralizing Fluids of Mississippi Valley-Type Ores along the Cincinnati Arch by William Travis Garmon; Adriana Potra; Andrew H. Wulff. University of Arkansas, Fayetteville

2nd Place
Comparison of the Elemental Geochemistry of the Boone Chert and the Arkansas Novaculite by John Philbrick. University of Arkansas, Fayetteville

Arkansas Academy of Science PERMANENT ONLINE HOME:
AAS Web Pages: The official website of the Academy now has a permanent public portal whose web address will never change although internal links for member pages might whenever the host migrates. Always access the online Academy pages from the permanent public portal...

http://www.ArkansasAcademyofScience.org